Amendments to the Claims

Please cancel Claim 13. Please amend Claims 1 and 14-16. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) A method of generating a decentralized model on a computer network, the decentralized model including one or more models having computer instructions and data that describe behavior of a system and/or evaluate the system, comprising the steps of:

generating data objects and/or function objects, at least some of the data objects and/or function objects being model inputs and/or model outputs, at least some of the function objects defining interdependencies within a model by providing solvable expressions that relate data objects and/or function objects;

publishing references to identifiers for the data objects and/or the function objects; based on the published identifiers, subscribing to the data objects and/or the function objects by creating relationships between the data objects and/or the function objects through by referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge, said references utilizing the published identifiers;

sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

invoking methods on data objects and/or function objects when data objects and/or function objects require information;

solving functions the expressions within the function objects when the messages are received;

storing the data objects and/or the function objects in a central location on a single computing device or in a distributed manner across multiple computing devices on a computer network; and

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wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.

- 2. (Original) The method of Claim 1 wherein at least a part of the configuration of the networks of linked data objects and/or function objects is predefined and used to determine which data objects and/or function objects are generated on which of the computing devices in the computer network.
- 3. (Original) The method of Claim 1 wherein a user interface is defined that displays the data objects and/or function objects on a computing device on the computer network using a client process that communicates with a server process wherein the data objects and/or function objects can be viewed on any computing device connected to the computer network.
- 4. (Original) The method of Claim 1 wherein the data objects and/or function objects are stored in logical groups.
- 5. (Original) The method of Claim 4 wherein the logical groups are defined by geography, business organization or site.
- 6. (Original) The method of Claim 1 wherein the references to the data objects and/or function objects are published using electronic media, print media or human conversation.
- 7. (Original) The method of Claim 6 wherein the electronic media is indexed and searchable.

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- 8. (Original) The method of Claim 1 wherein the step of generating the data objects and/or function objects provides an interface mapping for data objects and/or function objects stored in application programs, databases or computer code libraries.
- 9. (Previously Presented) The method of Claim 1 wherein the function objects are implemented by computer code that is compiled, dynamically linked and evaluated at runtime.
- 10. (Original) The method of Claim 1 wherein the function objects are implemented by computer code that is interpreted and evaluated at runtime.
- 11. (Original) The method of Claim 1 wherein the sending or receiving of messages can be enabled or disabled based on predefined criteria.
- 12. (Original) The method of Claim 11 wherein the criteria is based upon message source, message destination or message contents.
- 13. Cancelled.
- 14. (Currently Amended) An apparatus for generating a decentralized model on a computer network, the decentralized model including one or more models having computer instructions and data that describe behavior of a system and/or evaluate the system, comprising:

data objects and/or function objects, at least some of the data objects and/or function objects being model inputs and/or model outputs, at least some of the function objects defining interdependencies within a model by providing solvable expressions that relate data objects and/or function objects;

references to identifiers for the data objects and/or the function objects, the references identifiers being published and enabling substriptions to the data objects and/or function objects;

subscriptions to the data objects and/or the function objects generated by creating relationships between the data objects and/or the function objects through by referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

messages sent to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

an invoker component invoking methods on data objects and/or function objects when data objects and/or function objects require information;

a solver component solving functions the expressions within the function objects when the messages are received;

a storage component storing the data objects and/or the function objects in a central location on a single computing device or in a distributed manner across multiple computing devices on a computer network; and

wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.

15. (Currently Amended) An apparatus for generating a decentralized model on a computer network, the decentralized model including one or more models having computer instructions and data that describe behavior of a system and/or evaluate the system, comprising:

a means for generating data objects and/or function objects, at least some of the data objects and/or function objects being model inputs and/or model outputs, at least some of the function objects defining interdependencies within a model by providing solvable expressions that relate data objects and/or function objects;

a means for publishing references to identifiers for the data objects and/or the function objects;

a means for subscribing to the data objects and/or the function objects by creating relationships between the data objects and/or the function objects through by referencing

the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge, the means for subscribing being responsive to the means for publishing and utilizing the published identifiers;

a means for sending messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

a means for invoking methods on data objects and/or function objects when data objects and/or function objects require information;

a means for solving functions the expressions within the function objects when the messages are received;

a means for storing the data objects and/or the function objects <u>in a central</u> <u>location on a single computing device or</u> in a distributed manner across multiple computing devices on a computer network; and

wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.

16. (Currently Amended) A computer program product comprising:

a computer usable medium for generating a decentralized model on a computer network, the decentralized model including one or more models having computer instructions and data that describe behavior of a system and/or evaluate the system;

a set of computer program instructions embodied on the computer usable medium, including instructions to:

generate data objects and/or function objects, at least some of the data objects and/or function objects being model inputs and/or model outputs, at least some of the function objects defining interdependencies within a model by providing solvable expressions that relate data objects and/or function objects;

publish references to identifiers for the data objects and/or the function objects;

based on the published identifiers subscribe to the data objects and/or the function objects by creating relationships between the data objects and/or the function objects through by referencing the data objects and/or the function objects within the function objects, thereby linking the data objects and/or the function objects, wherein networks of linked data objects and/or function objects emerge;

send messages to referencing data objects and/or function objects when referenced data objects and/or referenced function objects change;

invoke methods on data objects and/or function objects when data objects and/or function objects require information;

solve functions the expressions within the function objects when the messages are received;

store the data objects and/or the function objects in a central location on a single computing device or in a distributed manner across multiple computing devices on a computer network; and

wherein the relationships between the data objects and/or function objects are created without using a single coordinating computing device, or are created using multiple coordinating computing devices on the computer network.